

**3 October 2006**

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## **RANGE AND TRAINING AREA OPERATIONS**

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**Summary.** This revised regulation updates the policies, safety procedures, and administrative procedures for requesting and using ranges, training facilities, and training areas on Fort Huachuca.

**Applicability.** This regulation is applicable to all personnel, military and civilian, engaged in any activity, official or unofficial, while using ranges, training facilities, or training areas on Fort Huachuca.

**Supplementation.** Supplementation of this regulation is prohibited without prior approval from the proponent.

**Suggested improvements.** The proponent of this regulation is Range Control, Directorate of Plans, Training, Mobilization, and Security. Users may send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) through channels to Commander, US Army Garrison (USAG), ATTN: IMSW-HUA-PLT, Fort Huachuca, AZ 85613-7009.

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\*This regulation supersedes FH Reg 385-8, 1 May 2001.

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## **Chapter 1**

### **General**

**1-1. Purpose.** This regulation prescribes procedures and policies for the safe and efficient utilization of ranges, training facilities, and training areas within the boundaries of Fort Huachuca. This regulation is punitive in nature. Failure to comply with this regulation may subject the offender to punitive or administrative action under Federal law or regulations. Such laws and regulations include, but are not limited to; Article 92 of the Uniform Code of Military Justice (UCMJ), Federal civilian personnel regulations, Federal criminal statutes, and applicable provisions of the Arizona Revised Statutes (ARS) as assimilated by 18 United States Code (USC) Section 13, as appropriate. Additionally, offenders may also be barred from, and ordered not to re-enter part or all of Fort Huachuca by the Garrison Commander under the authority of 18 USC 13.

**1-2. Scope.** This regulation is applicable to all units and activities on Fort Huachuca; all other Department of Defense and Federal Agencies served; and any public or civilian agency, organization, or individual requesting use of range of training area under Fort Huachuca control. Live-fire activity of any nature (training facility or area use) will be in accordance with (IAW) this regulation, all referenced publications, and other oral or written instructions that may be required. Training includes, but is not limited to; mountain and desert training, adventure, escape and evasion training, brigade, and lower echelon field training exercises.

**1-3. References.** Referenced and required publications and prescribed and referenced forms are listed in appendix A.

**1-4. Exceptions.** Requests for exceptions to the provisions of this regulation must be submitted to Commander, USAG, Fort Huachuca, ATTN: IMSW-HUA-PLT, Fort Huachuca, AZ 85613-7009. A written justification is required for each requested exception. Justification must include details as to the adverse impact on the unit and mission if the request for exception were to be disapproved.

#### **1-5. Off-limits and limited access areas.**

a. All ranges, training facilities, and training areas are off-limits unless they are being used in an approved manner by authorized personnel. Any person who enters any range, training facility, or training area without proper authority, or any person who enters with proper authority but engages in any unapproved use of or prohibited activity on any range, training facility, or training area, is a trespasser, and will be removed, by force if necessary, by the military police or other appropriate official.

b. Training area "Z" on the East Range is a designated artillery, mortar, and rocket impact area. This area is permanently off-limits to all recreational activities. All requests to conduct military training or testing in area "Z" will be approved or disapproved by Range and Training

Operations; hereafter referred to as Range Control. Individuals on official business and requiring access to Area "Z" must receive approval from Range Control prior to entry. Handling unexploded ordnance or removing any item from the impact area is prohibited. Portions of area "Z" may be utilized for as a future CBLFX range.

c. All permanently fenced sites, facilities, buildings (i.e., communication sites, EPG Facilities, etc), and storage areas located in the training areas of the Fort Huachuca Military Installation are off-limits to all personnel and units conducting training or recreational activity on the installation.

d. All scheduled training and test areas are off-limits to persons not participating in the training or testing. Individuals on official business and requiring access to these areas will request approval from Range Control prior to entering the off-limits area.

#### **1-6. Recreational use of Fort Huachuca training lands.**

a. Persons desiring to participate in recreational activities on Fort Huachuca training lands are responsible for checking to ensure that military training is not taking place and those areas they wish to access are not closed. Individuals or groups who fail to make such checks prior to entering such areas may not be able to successfully pursue a cause of action, claim, or similar demand against the United States, its officers, agents, or employees, for any property loss or physical injury arising out of their entry into or use of such areas.

b. Requests for use of ranges, training facilities, or training areas by non-military entities will be sent to the "Commander, US Army Garrison, Fort Huachuca, AZ 85613-7001" stating the name of the organization; what activity you wish to engage in; where and when the activity will take place; and what, if any, support is needed from the installation. These requests will be considered on a case-by-case basis. Support that involves non Ft Huachuca Army Tenants must be requested through the Military Civilian Support Office: 533-9904, [huawatch@hua.army.mil](mailto:huawatch@hua.army.mil).

c. Civilian Support activities must be staffed through the Office of the Staff Judge Advocate and have Garrison Commander approval.

**1-7. Prohibited activities.** The following prohibited activities are not all inclusive. Additional restrictions may be found within the various chapters of this or other post regulations. Other prohibitions may be declared at varying times throughout the year due to weather, fire danger, flooding, environmental, or other conditions.

a. Handling unexploded ordnance, or removing any item from any range, training area, or impact area is prohibited under penalties provided for by Federal Law and the Uniform Code of Military Justice (UCMJ). This includes, but is not limited to, the unauthorized removal of brass, scrap metal, or ammunition residue. If unexploded ordnance items are discovered, the area (not closer than 10 meters to the object) will be marked with a strip of visible material. Range

Control (533-7093/7095, or Channel 2 on Motorola) will be notified immediately and provided the location and description of the item. The individual discovering the item must remain readily available to guide the Range Control personnel to the site.

b. Collecting prehistoric or historic artifacts, fossils or old objects, or digging or destroying archeological or paleontological sites, is prohibited within the confines of Fort Huachuca. As part of the installation's Cultural Resources Management Program archeological projects may be conducted by assigned Army staff or professionals with proper authorization.

c. Digging fighting positions, slit trenches, gun positions, sumps, or holes of any other type, or cutting vegetation of any type or in any manner. All digging requirements must be noted on the original request (FH Form 1155 or RFMSS). It is the requesting unit's responsibility to coordinate with the appropriate office in acquiring all necessary permits. The preparation of hasty-fighting positions must be listed on the original request and will be approved on a case-by-case basis by Range Control.

d. Blocking roads, trails, or fire breaks, unless specifically approved by Range Control.

e. Entry to or on any range, training facility, or training area without permission from Range Control.

f. Firing any weapon while engaged in activities other than military training except during a scheduled hunt governed by Fort Huachuca, the State of Arizona, or Federal regulations.

g. Use of unscheduled ranges, training facilities, or training areas for personal convenience, to include the discharge of any privately owned weapon (POW) for the purpose of target practice or zeroing. Additionally, POWs will not be permitted on any range during military training.

h. Going down range to check any target malfunction. Electronically operated targets will not be modified, repaired, or worked on by other than Range Control or designated maintenance personnel.

i. Nonstandard use of ranges, training facilities, training areas or pyrotechnics (tracers, smoke grenades, simulators, flares, etc.), unless specifically noted on original request, and approved by Range Control. Unless specifically authorized, ranges will be used only for the weapons for which they were designed. Use of ranges will be IAW the appropriate Army Regulation (AR), Field Manual (FM), Technical Manual (TM), and this regulation.

j. Firing of weapons at, harassment, injuring, or killing of wild animals or livestock while utilizing a range or training area to conduct military training. Details of any violation will be immediately reported to Range Control. Range Control will notify the Game Management Office at 3-7084, of the incident.

k. Cross-country driving of military and privately owned vehicles (POV) to include motorcycles, ATV's and other off highway vehicles except in case of an emergency where no other mode of transportation is available.

1. Entering any road, trail or firebreak posted as limited, barricaded either temporary or permanent, or prohibited access unless in conjunction with official duties.

m. No recreational rappelling, rock climbing, etc.

#### **1-8. Privately owned vehicles and military traffic policies.**

a. Operation of Off-Highway Vehicles (OHV) is limited to unimproved roads and dirt trails. Vehicles must be equipped with brakes, a spark arrestor, and a muffler, all in good working order. Users are referred to FH Regulation 190-5 for additional requirements and restrictions.

b. During road movements, the following policies have been established to facilitate administrative traffic control, prevent unnecessary changes to road nets, prevent environmental damage, and to ensure optimum safety. Convoy or road march activity must be requested on original request and approved by Range Control prior to any training. Unit must submit a strip map NLT 10 working days prior to event start. Necessary coordination with other agencies (such as Military Police) are the responsibility of the requesting unit and must be made prior to submitting request to Range Control. All the following operations must be addressed in the Commander's Risk Assessment.

(1) Wheeled vehicle movement outside of the cantonment area is restricted to established roadways, firebreaks, unimproved roads, and jeep trails. Maximum speed limit for all wheeled vehicles, unless otherwise posted, is 25 miles-per-hour (MPH) IAW FH Regulation 190-5.

(2) Tracked vehicles are restricted to authorized maneuver areas and designated or marked tank trails. The speed limit on tank trails for tracked vehicles is 15 MPH; catch-up speed is 20 MPH.

(3) In the absence of signs, vehicles crossing tank trails will yield the right of way.

(4) No vehicle will exceed 10 MPH when passing troops.

(5) During travel, all vehicles will maintain at least a 50 meter interval.

(6) The lead and rear vehicles of a convoy will have, as a minimum, one senior occupant in the rank of NCO (CPL or above). Lead and rear vehicles will maintain a distance of one hundred meters from the convoy. The lead and rear vehicles will be marked with clearly visible signs indicating "CONVOY FOLLOWS" and "CONVOY AHEAD".

(7) During road marches ensure individuals walk off the edge of paved roads or the extreme left/right of non-paved roads. Marchers will not walk in roadway to impede traffic flow.

Road marches will have as a minimum two personnel wearing reflective vests one hundred meters to the front and rear of the marchers. During the hours of darkness personnel to the front and rear of the marchers will be equipped with flashlights. In addition all personnel will have a chem-light attached to the helmet or ruck sack

(8) During vehicular convoys, the lead and trail vehicles will have headlights turned “ON” during hours of darkness and all periods of limited visibility.

(9) Convoys or march columns that leave the tank trails, firebreaks, or access roads to use training facilities or areas, or when reentering such roads, will post road guards to control traffic. Road guards will be posted at critical intersections, such as: where hardtop roads and tank trails cross; where the convoy or march column enters or exits an established roadway. Road guards will be dismounted. Vehicles will not be used to block roads. Road guards will be equipped with reflective vests, flashlights or other applicable safety devices.

(10) During official training activities, the unit commander may approve POVs being driven to ranges, training facilities, and training areas. Weapons and ammunition will not be transported in POVs. POVs are restricted to marked roads and must be parked in designated POV parking areas, vehicles will not park in adjoining grasslands or wooded areas. Government vehicles used to transport troops, or that have been authorized to accompany troops to sites, will be parked in designated areas. See Appendix B, (Range Catalog) to this regulation for authorized parking areas at specific ranges and facilities.

c. Permission to conduct blackout marches will be granted on a case-by-case basis. Strict adherence to the information in paragraph a above is required and is subject to inspection by Range Control personnel. Vehicles will not exceed 12 MPH while driving under blackout conditions. For safety purposes, Range Control will provide details of “blackout” convoy and road march operations for publication in the post newspaper and Weekly Bulletin.

## **Chapter 2**

### **Responsibilities**

**2-1. General.** All personnel using Fort Huachuca ranges training facilities, or training areas will be aware of designated hazardous areas, required precautions and necessary restrictions as outlined in this regulation, other applicable publications, and as published in the post newspaper and Weekly Bulletin. Leaders are encouraged to read and be familiar with this regulation and the using unit SOP prior to using ranges or training facilities. Specific questions on current policies and procedures may be directed to the Chief, Range Control 533-7102 or Range Control Operations 533-7093.

### **2-2. Fort Huachuca.**

a. Senior Mission Commander:

(1) Ensures the installation Public Affairs Office (PAO) is included in planning and executing the installation Range Safety Program. The PAO assists in the education of on-post and off-post personnel to include school children in the dangers of trespassing on ranges and training areas and handling unexploded ordnance (UXO).

(2) Develops procedures to ensure all release of information to the public news media is made through the installation PAO and IAW AR 360-1.

(3) Ensures warnings are issued at least 24 hours in advance, through the PAO, to the public news media before firing operations that may involve possible hazards to the general public.

(4) Prohibits the use of alcohol and controlled substances in any training environment and prohibit any individual under the influence of alcohol or controlled substance entrance to a training area or range facility.

(5) Ensures ammunition and explosives not expended during training are returned to the Ammunition Supply Point (ASP), in the original packaging, when firing is completed or as directed by local policy.

(6) Complies with Military Handbook (MIL-HDBK) 828A, or Space and Naval Warfare Instruction 5100.12 and Marine Corps Order (MCO) 5104.1, and DA PAM 385-63 in establishing firing ranges, training facilities, and maneuver areas for laser use within the installation training complex.

(7) Ensures an aggressive education program on the dangers of dud ammunition and other items of UXO is implemented.

b. Commander, US Army Garrison will:

(1) Establish procedures for the safe conduct of operations on all firing ranges that are within the installation's area of responsibility, including recreational ranges. Ensure that commanders of using units, subordinate organizations and activities designate, train, and qualify individuals to perform the duties of Range Officer-In-Charge (OIC) and Range Safety Officer (RSO) during firing periods IAW AR 210-21 (Army Training Ranges and Land).

(2) Conduct an aggressive education program for all military and civilian personnel, military dependents (especially school aged children), and the general public on the dangers of ammunition duds and other unexploded ordnance. Coordination should be with the Installation Safety Office, Public Affairs Office, Range Control, and IAW AR 210-21.

(3) Provide periodic public service notices, through the Public Affairs Office, to warn neighboring communities of the hazards involved in trespassing on the Fort Huachuca installation and in handling unexploded ordnance IAW AR 210-21.



(4) Identify live-fire and maneuver training land requirements IAW TC 25-1 (Training Lands) and AR 405-10 (Real Estate Policies and Procedures).

c. The Director, Plans, Training, Mobilization, and Security (DPTMS), USAG:

(1) Exercises staff supervision over Range and Training Division, which is responsible for:

(a) Safe and proper use of all military live-fire ranges, training facilities and training areas.

(b) Approving Range Facility Management Support System (RFMSS) requests, pyro fire plans, scheduling and coordinating the use of all ranges, training facilities, and training areas IAW established priorities.

(c) Preparation of firing schedules and training area closures for publication in the Weekly Bulletin and post newspaper.

(d) Approval of all Combat Live-Fire scenarios, prior to execution.

(e) Log and track land usage and ordnance expended data via RFMSS.

(2) Coordinating with the Public Affairs Officer for information to be published in advance of training activities that might cause adverse reaction within the civilian community.

(3) Ensuring the readiness of all ranges, training facilities, and training areas by performing routinely scheduled checks and maintenance.

(4) Coordinating with the Directorate of Public Works (DPW) concerning the repair of ranges, facilities, and training areas, and grass and weed cutting on or adjacent to those areas. This includes necessary repair and grading of access roads and firebreaks.

(5) Establishing and enforcing standards of safety, operational efficiency, and effective resource utilization.

(6) Requests for air space will be coordinated through the Airspace Officer at Libby Army Airfield. Conflicts in use of air space, drop-zones (DZ's) and landing zones (LZ's) on the East Range, controlled firing areas and restricted areas will be resolved between the air space coordinator and range control.

(7) Performing scheduled or unscheduled checks of ranges, training facilities, and training areas to ensure safety, security, prevention or discovery of any destruction, theft, or unauthorized use of Government property.

(8) Approving all live fire scenarios, range safety cards, safety fans, diagrams, and position overlays submitted for ground maneuver, aerial, artillery, mortar, or tank live firing.

(9) Notifying the Directorate of Emergency Services (DES) of unauthorized personnel to include undocumented immigrant (UDI) or activity in or on the ranges, facilities, training areas, or impact areas.

(10) Constructing and maintaining an adequate supply of targets. Targets must be appropriate to the TOE/TDA weapons of units normally using the ranges. Ensuring that units provide the required fund site for target costs when Range Control budget constraints prevent purchase of necessary materials to provide targets.

(11) Preparing, maintaining, and enforcing range and training area regulations, Standard Operating Procedures (SOP), and safety programs.

(12) Advising the Garrison Commander on proposed location(s) for new ranges.

(13) Coordinating with Explosive Ordnance Disposal (EOD) personnel for the removal, destruction of unexploded ordnance found on installation training lands.

(14) Coordinating with the Directorate of Information Management (DOIM) on matters pertaining to operation, installation, and maintenance of radio and telephone communications between firing ranges, facilities, training areas, and Range Control.

(15) Administering the Range Certification Program and issuing DD Form 577 (Signature Card).

d. The Directorate of Emergency Services (DES) will:

(1) Ensure that the Law Enforcement Division (LED), DES, exercises and enforces overall responsibility for the physical security of ranges, facilities, and training areas. This includes performing periodic checks to prevent unauthorized use, destruction, or theft of Government property. Range Control will be notified of any physical security incidents. As required, the LED will detain, apprehend, or remove unauthorized personnel from ranges, facilities, training or impact areas.

(2) Ensure that the Fire Department coordinates with Range Control regarding procedures for scheduling controlled burns, fire prevention, and fire fighting of range fires.

(3) Provide necessary support to the Range & Training Division in the event of a UXO incident.

e. The Safety Division will conduct frequent inspections independently and in coordination with Range Control personnel to ensure compliance with range and safety regulations, SOPs, current guidance and requirements.

f. Directorate of Public Works (DPW) will:

(1) Ensure the maintenance and repair of facilities and training areas which are beyond the capability of Range Control.

(2) Ensure the repair of safety deficiencies of facilities and training areas which are beyond the capability of Range Control.

(3) Accomplish grass and weed cutting as scheduled, requested, or required on ranges, firing points, access roads, and roads fronting the ranges.

(4) Maintain firebreaks (consistent with range scheduling) to contain grass or weed fires, IAW the Installation Fire Departments determination for clearing and grading.

(5) Advise the Range Control Officer on National Environmental Protection Act (NEPA) documentation requirements for the conduct of training and/or testing on Fort Huachuca training lands. Prepare NEPA documentation in support of range maintenance and/or construction projects. Environmental Division (ENRD) will provide digging clearances/adjudication to requesting units.

(6) Coordinate and approve the use of off-post areas for training or testing purposes, IAW FH Regulation 420-12 (Acquisition and Use of Miscellaneous and Off-Post Real Estate).

g. Commander, US Army Health Services Command will ensure the availability of qualified medical personnel and equipment in support of training requirements, as coordinated and requested.

**2-3. Using units, agencies, and organizations will:**

a. Submit request for utilization of ranges, training facilities and training areas not less than 21 calendar days before the anticipated date of use.

b. Use ranges, facilities, and training areas IAW this regulation, and other appropriate regulations and manuals governing the type of training to be conducted.

c. When required, ensure that medical support is present before training starts.

d. Designate an Officer In Charge (OIC) or Noncommissioned Officer In Charge (NCOIC) and a Range Safety Officer (RSO) or Range Safety Noncommissioned Officer (RSNCO). The requirements for appointment of OIC/NCOIC and RSO/RSNCO are listed in the individual descriptions of the various training facilities, ranges, or training areas.

e. Ensure the OIC/NCOIC and RSO/RSNCO report to Range Control prior to the scheduled date of training to become familiar with the local SOP published for the specific live fire activity and the range where training is to be conducted.

f. Ensure that individuals selected to be OIC/NCOIC and RSO/RSNCO are thoroughly trained, competent and have demonstrated a complete knowledge of procedures to operate ranges, training facilities, and training areas. The training will include safety procedures for the weapons and ammunition being fired and training being conducted (AR 385-63, and AR 210-21, chapter 2-13). Personnel selected for this position must be annotated in a memorandum signed by the battalion commander that is turned into range control and updated quarterly (see appendix D for memorandum example).

g. Ensure that only range certified personnel are assigned duties as RCO/RSNCO or FTX Site Commander and report to Range Control a minimum of 30 minutes before the start time indicated on the original request to accomplish sign in and receive any necessary equipment or verbal instructions. Personnel signing for training areas may sign for those areas the day prior to occupation of the site.

h. Ensure personnel reporting to Range Control to sign for ranges, facilities, or training areas have in their possession a properly completed DD Form 577 (range certification card), an approved request, and 2 copies of a risk assessment for the training event that is IAW FM 100-14.

i. Upon occupying a range or training facility, request a pre-inspection from Range Control. The pre-inspection is to check serviceability and familiarize unit personnel (OIC/RSO) with the range, facility, and area.

j. Once the range inspector has given the OIC permission to go hot, call range control and request permission to go "HOT", once in a hot status make 30 minute radio checks starting from the hot time.

k. The OIC/RSO must make changes to the risk assessment as required.

l. Inform Range Control, as far in advance as possible, when use of a scheduled range, facility, or training area has been cancelled; or when a delay of 30 minutes or more will occur in signing for the range or facility; or a delay in the activity start time. Cancellations need to be in standard memo format.

m. Ensure that vegetation is neither cut nor removed from any firing range, firing point, or training area and that the environment is maintained in its natural state.

n. Ensure that no alterations are made to range facilities and that Government property is safe, not damaged or destroyed.

- o. On an as-required basis, provide personnel for target construction, deployment and or removal of target mechanisms and targets, and recovery of target materials by disassembling those damaged during firing or training.
- p. Maintain up-to-date Field Manuals and Technical Manuals for weapons and weapons systems at firing locations. These publications provide information on handling of misfires and malfunctions unique to the weapon or system.
- q. Ensure that all personnel, including inspectors and visitors, use hearing protection devices as required.
- r. Upon completion of training, remove all trash, brass, ammunition boxes, crates, and litter from ranges, facilities, or areas used. Recoverable ammunition components are to be returned to the ASP.
- s. Request a "COLD" time from Range Control upon completion of the training activity. This will be accomplished upon the determination by the OIC that no further live fire or training will take place and the last obstacle of the event has been completed for the day.
- t. Request final inspection from Range Control when the unit is prepared to depart the area. The unit will not be released from responsibility until the inspection has been completed, all noted deficiencies have been corrected, issued equipment is returned to Range Control, and required usage or accident information is reported and submitted.
- u. Ensure any civilian use of ranges, facilities and training lands is IAW AR 385-63, AR 350-19, this regulation 1-6c, and other regulations, as applicable.

## **Chapter 3**

### **Range Operations**

#### **3-1. Requests for use and scheduling.**

a. The use of Fort Huachuca ranges, training facilities, and training areas must be requested on FH Form 1155 or through the Range Facility Management Support System (RFMSS) computer scheduling program. The requesting unit will process FH Form 1155 through appropriate channels to the Commander, USAG, ATTN: IMSW-HUA-PLT, Fort Huachuca, AZ 85613-7009.

(1) All individuals assigned the responsibility to schedule facilities and training areas via RFMSS or FH Form 1155 must attend the Range Certification course prior to being issued a login ID and Password.

(2) Failure to provide all required information on the request will be cause for disapproval and return to the unit for correction.

b. The completed request form must be submitted to the Range Control for processing a minimum of 21 calendar days before the start date of the requested activity. Exceptions to this policy require written justification as to why the request is inside the 21 calendar day policy and must include a statement of what effect disapproval of the activity will have. Requests for exception must be signed by the first O-5 in the chain of command.

c. The priority for scheduling or use of ranges, facilities, and training areas is based on when the request is received and approved. Mobilization or deployment range and training activity has priority over all other scheduled activity.

(1) All live fire ranges, training facilities, and training areas approved and scheduled for use are subject to cancellation by Range Control.

(2) The approval and scheduling of any activity does not in itself indicate sole use or occupancy of the range or training area. Adherence to subparagraph 3-2 below is mandatory.

### **3-2. Scheduling procedures:**

a. The following instructions will be followed when completing FH Form 1155 (Range/Site/Area Request) to request use of a range, training facility, or training area--

(1) "TO" block: "ATTN: IMSW-HUA-PLT".

(2) "FROM" block will reflect the designation of the requesting unit to include parent unit.

(3) "DATE" block will reflect the date the FH Form 1155 is filled out.

(4) "TELEPHONE" block will reflect the unit telephone extension and available alternate number.

(5) "RANGE/SITE/AREA" block will reflect the specific facility being requested and the training area it is in. If the request is for one or more field sites in multiple training areas, each must be listed to include what will be at each location; for example: bivouac site, Combat Control Team (CTT), and test support.

(6) "GRID COORDINATE(s)" block will reflect eight digit grid coordinates for all sites specifically requested in subparagraph (5) above, and will be listed to correspond with what will be at each coordinate.

(7) "START DATE" block will reflect the desired date that training is to begin.

(8) "START TIME" block will reflect the exact time that the training is to begin. This time must be adhered to and is used by Range Control to adjudicate cancellation of training if the OIC/NCOIC fails to report to Range Control a minimum of 30 minutes prior to sign for the requested range, facility, or training area.

(9) "END DATE" block will reflect the date the training activity will end; the unit will be prepared for final inspection and prepared to depart the area. Extensions to this date will be granted on a case-by-case basis by Range Control.

(10) "END TIME" block will reflect the time the training activity will end. Extensions to this time will be granted on a case-by-case basis by Range Control.

**NOTE:** Comment in the "REMARKS" block if the "END DATE" is not the same day that the "END TIME" is occurring. For example: Training will end at 1800 hours on 10 Aug 94, but the unit will not depart the training site until 1000 hours on 11 Aug 94.

(11) "TYPE OF TRAINING" block will reflect the specific type of training or activity to be conducted. Examples: M-16 qualification, Leadership Reaction Course, Common Task Training/Testing, Field Training Exercise (FTX), Joint Surveillance Target Attack Radar System Testing (JSTARS), etc. FTX activity will be indicated by exercise name/designation, as will the test activity. Exercises involving vehicular or road march activity (see chapter 1, paragraph 1-8b) or CP/unit jump activity will include an overlay (1:50,000 scale) as an enclosure to FH Form 1155.

(12) "NUMBER OF PERSONNEL" block will reflect the number of personnel projected to participate in the training activity, to include the number of instructors/graders on the site.

(13) "OIC/NCOIC" block will reflect the name and grade of the individual(s) in charge of the training activity. These personnel must be Range Certified by their commander IAW chapter 2, paragraph 2-3.

(14) "NONSTANDARD TARGET REQUIREMENTS" block will be used to request the construction of targets in addition to those permanently installed or normally used on the ranges. Requests must include detailed requirements to ensure that targets constructed are adequate and funds to procure necessary material for construction of targets

(15) "AMMUNITION/PYROTECHNICS" block will reflect the type and amount to be expended. Any anticipated use of tracer ammunition, pyrotechnics/or smoke will be specifically reflected in this block. Units are required to confirm approval with Range Control for use of pyrotechnics, smoke, or tracers 24 hours prior to scheduled use date. During high fire danger times, use will be on a case by case basis, and subject to change with no advance warning.

(16) "AIRSPACE REQUIRED" block will be appropriately filled in.

(17) "MEDICAL SUPPORT REQUIRED" block will be appropriately marked based on the following--

(a) Commanders of units with organic medical assets/ personnel will use them while conducting airborne operations or training on the Rappel Cliffs.

(b) Units without organic medical support are responsible for making necessary coordination with outside units or organizations for necessary medical support.

(18) "REMARKS" block will be used to reflect the following types of data (not an all-inclusive list)--

(a) To address the enclosure of any required or supplemental documentation to the FH Form 1155.

(b) To list any unit which has been coordinated with to provide training or medical support for the activity being requested.

(c) To make comments which do not meet requirements of any previous block.

(d) To request a date or time change, or to add or delete activities scheduled on a previously submitted and approved FH Form 1155.

b. Remote scheduling via RFMSS requires access to a local area network (LAN) or the internet. Units may gain access as follows:

(1) Contact range control to obtain ID and password and other necessary information for access to the local LAN. All individuals assigned the responsibility to schedule facilities and training areas via RFMSS or FH form 1155 must attend the Range Certification course prior to being issued a login ID and Password.

(2) Request range control personnel load appropriate software on unit computer for LAN access.

(3) Access RFMSS on the internet through <https://rfmss.lmfs.belvoir.army.mil>. Ensure all appropriate data pertaining to unit/personnel data, dates, weapons, vehicles, ammunition, etc., is entered in request.

### **3-3. General safety.**

a. The following topics regarding safety are general in nature and apply to all users of Fort Huachuca training lands regardless of activities. They supplement safety measures mentioned elsewhere in this regulation, AR 385-63, Installation Safety Office Policies, and various other ARs and FMs pertaining to specific firing, training, and maneuver activities.



b. Each numbered, direct-fire range, or named training facility has a separate, specific local Standard Operating Procedure (SOP) for use when in operation. These SOPs are kept on file at Range Control. They are issued on hand receipts to the individual signing for the range. Each binder containing the SOP also contains available regulations and other data on the specific range, weapon system, or training activity.

c. Appendix B, this regulation, contains a Range Catalog, it provides required data concerning range capabilities and limitations for Fort Huachuca ranges.

d. Before units begin any training activity all personnel will be cautioned that rattlesnakes, scorpions, black widow spiders, brown recluse spiders, skunks, etc., may be found on any range. Personnel should avoid contact with all wildlife. Range Control assistance will be requested if a problem should arise.

e. Safety inspections by Range Control personnel are conducted during all live-fire range activity and periodically during all other training activity. Additionally, the Installation Safety Office conducts periodic announced and unannounced safety inspections of all training activities.

f. Range Control personnel will not be denied access to any range, facility, or training area by the using unit. Range Control personnel have the authority and responsibility to declare a cease fire or to halt any training activity which is deemed by them to be unsafe or unauthorized. The Range Control Officer, or his designated representative, has the authority to decertify the OIC/NCOIC and/or RSO/RSNCO. In such instances, all training activity will be stopped until a qualified individual is appointed by the training unit commander.

g. In addition to the safety statement contained in each facility and range description, the following safety procedures will be strictly adhered to:

(1) All weapons taken to a range will be stored in designated rifle racks, weapon containers, or as a last resort, in the position of "stacked arms". The weapons selector lever will be placed in the "SAFE" position, with bolts pulled and locked to the rear.

(2) All weapons located on a live-fire range will be presumed loaded. Under no circumstances will weapons be pointed at anything other than the authorized targets. When carried onto the range, all weapons will be moved with the muzzle of the weapon pointed skyward and down range. Battalion Commanders may authorize a modified weapons carry, however, muzzles must remain pointed down range. Modified weapon carries must be specifically addressed on the Unit Risk Assessment.

(3) All weapons will be inspected by a designated range safety officer or NCO before firing and upon completion of firing. No weapon will be advanced to or removed from the firing line until inspected. The weapon inspection is to ensure that the weapon is unloaded, cleared, and the selector lever is placed in the "SAFE" position; the bolt or slide is locked to the rear; and

a cleaning rod has been inserted into the bore to ensure that the bore and chamber are clear of any obstruction.

(4) Red range flag(s) will be issued to the individual signing for the live-fire range. The flag(s) will be displayed IAW this regulation or the particular written and/or verbal instructions received when the range is signed for. During the hours of darkness, red or yellow flashing caution lights will be issued and operated IAW instructions from Range Control.

(5) Range OIC/NCOIC will not allow live fire to begin prior to the emplacement of all prescribed safety warning devices, to include any prescribed road warning signs, road blocks, or road guards.

(6) Prior to firing, all individuals on the range will have received an appropriate safety briefing from the OIC/RSO including a minimum: identify the left and right limits of the range, instructed that all weapons must be pointed skyward and down range at all times, have approved hearing protection, and no actions will be taken when on the firing line unless directed by the Control Tower Operator (CTO), OIC, RSO, or lane safety.

(7) At no time will running or horseplay be permitted on any range; this includes during breaks and meal time.

(8) No smoking is allowed within 50 feet of ammunition storage areas, the ammunition breakdown area, range buildings, or on the firing line. Smoking will be in designated areas only.

(9) Prior to leaving the range, a shakedown inspection will be conducted to ensure that no live ammunition, brass, or other residue is removed from the range by unauthorized personnel. The names of the persons conducting the shakedown must be given to the Range inspector conducting the final inspection.

(10) OIC/RSO must update risk assessment as conditions change and annotate the new controls on their risk assessment. If the risk level escalates to a higher level that requires a higher approval then training will pause while approval is acquired.

h. Units using live fire ranges will be prepared to cause an immediate "Cease Fire" upon notification from Range Control, without concern for the immediate reason. Additionally, all personnel will be informed that any individual, military or civilian, who observes an unsafe act or condition may cause firing to cease by commanding "CEASE FIRE." All personnel must remain alert and watchful for personnel, vehicles, or aircraft that might inadvertently enter into downrange danger areas. If this occurs, cause firing to cease immediately and notify Range Control.

i. The following procedures will be followed regarding ammunition and explosives--

(1) Ammunition and/or explosives will be transported and handled only under the direct supervision of qualified personnel who are thoroughly familiar with the safety regulations listed in AR 385-63, TM 9-1900, TM 9-1300-206, TMs or FMs of specific weapons, and FH Reg 725-3.

(2) All vehicles carrying ammunition, explosives, or other dangerous cargo will be properly inspected IAW TM 9-1300-206, paragraph 6-13. Vehicles will be equipped with (as a minimum) one 10-lb B/C rated fire extinguisher mounted inside the cab. Vehicles will display explosive A or B placards (as appropriate) on the front, rear, left, and right sides. In the event both Class A and B explosives are carried on the vehicle, the most hazardous placard will be used. For information on convoy clearances and escorts, refer to FH Reg 725-3.

(3) Ammunition and/or explosives will not be stored in parked vehicles or transported through the cantonment area. Arrangements for establishing an ammunition holding area will be made with Range Control and supervised or inspected by the Installation Quality Assurance Specialist Ammunition Surveillance (QASAS).

(4) Explosives and ammunition will be carefully handled and transported. Containers will not be tumbled, thrown, or dropped on each other, or dropped from tailboards of trucks. Ammunition will be loaded and blocked to prevent damage to ammunition and vehicles.

(5) Caution will be exercised while opening boxes containing ammunition or explosives so that no sparks are produced. No more ammunition or explosives should be uncrated than is necessary for immediate needs.

(6) Ammunition held on any range will not be subjected to hazardous conditions. Ammunition will be stored well away from active firing and back blast areas, in areas not subject to grass fires, and off roadways. Ammunition will be protected from the direct rays of the sun, and covered during inclement weather, especially after uncrating.

j. Ammunition malfunctions will be handled as follows--

(1) Misfire is a failure to fire, which may be due to a faulty firing mechanism or a faulty element in the propelling charge explosive train. Procedures for handling misfires are outlined in the FM or TM for the weapons and TM 9-1300-203. These instructions are to be followed without deviation. Special care will be taken when handling misfires in hot weapons. Under those conditions, ammunition which will not fire after misfire procedures have been followed will remain in the weapon until the appropriate cooling off period has ensued, with the weapon pointed down range, evacuated, and protected from molestation. In any event, retrieved misfires are to be segregated from other ammunition, marked, and turned in to the ASP.

(2) Hang-fire may occur at anytime after an initial misfire. Weapons with a misfired round in the chamber must be treated as if they might fire at any time.

(3) Cookoff may result when ammunition is placed in hot weapons, thus the need for a "cooling off" period cited in subparagraph j(1) above.

k. The following procedures will be adhered to for the use of blank ammunition:

(1) Live and blank small arms ammunition will not be fired at the same time in any phase of tactical exercises. If a change is necessary (from live to blank ammunition), a complete physical search of all personnel will be conducted for live ammunition prior to change.

(2) Weapons firing blank cartridges require a blank adapter.

(3) Blank cartridges are to be used for the weapon they are designed for.

(4) Under no circumstances will personnel tamper with blank cartridges.

(5) When misfires in excess of 5 per cent occur in firing blank cartridges, the firing of that lot of ammunition will be suspended and reported IAW AR 75-1 and FH Reg 725-3.

(6) When training is completed, Soldiers and vehicles will be checked to ensure that all blank ammunition has been collected.

l. When CS or CN munitions are to be used outside of the NBC Chamber, advanced coordination must be made with Range Control to determine the acceptable areas for use. The using unit will provide range control with an eight digit grid coordinate indicating the location of intended use; the exact time of release or use and the amount of munitions to be used.

m. While lightning strikes are not predictable, recognized precautions should be taken to decrease the likelihood of lightning casualties. Thunderstorms build up tremendous electrical potential, which searches for the shortest and easiest path to the ground. Therefore, lightning is attracted to metal fences, wires, or the tallest object available, such as trees, isolated buildings, antennas, animals, or people in open areas. The following precautions are recommended, see USAIC SOP 385-3 for complete guidance to severe weather injury prevention.

(1) When an electrical storm is approaching, the senior person at the range or training area will make a decision regarding the lightning hazard and whether halting activities is necessary. Activities may also be halted at the direction of Range Control personnel.

(2) Commanders should ensure that their organization is included on the notification roster for adverse weather conditions.

(3) When marching in formation, troops should increase the minimum distance and interval to twice that normally maintained.

(4) Radios will not be used, and troops will not carry radios with antennas extended.

(5) Troops will be removed from areas containing relay antennas or vehicles with whip antennas.

(6) Personnel will dismount from all metal machinery and move to a safe distance. A safe distance is approximately 100 yards from metal machinery, depending upon the terrain and conditions.

(7) Personnel in an outside area should avoid hilltops, haystacks, lone trees, flagpoles, fences, overhead wires, tents, and metallic objects, such as weapons of any kind, open top vehicles, trucks, and HMMWVS. Personnel may safely remain in enclosed vehicles.

(8) Should personnel be unavoidably caught in a flat, open space or on a bare hilltop, they will not be allowed to huddle together. Soldiers should disperse to reduce the attraction of lightning to a mass of bodies.

(9) Troops should attempt to take shelter in dense woods or a grove of trees but avoid trees standing alone. Soldiers will maintain a low profile if caught in an open, flat area. When taking shelter, only the minimum metal objects should be retained. Weapons and radios, etc. should be stacked away from, but within sight of, at least one person.

(10) In the event buildings are available in the immediate area, personnel should seek shelter in the largest building possible. A well-grounded metal frame building offers the most protection.

(11) In the event of one or more lightning casualties, notify Range Control immediately by the quickest and safest means. Range Control will immediately call for emergency medical support. In many instances personnel are only temporarily stunned or paralyzed and can be revived with prompt first aid measures. Immediate attention should be directed to those who may appear to be dead. Individuals who are stunned or dazed but moving about can usually recover alone but will require examination by medical personnel as soon as possible. Those whose breathing and/or heartbeat has stopped need immediate attention. Brain damage can occur in as little as four minutes. Should such a casualty occur, a qualified person should begin artificial respiration and cardiopulmonary resuscitation, treat for shock, and evacuate to the nearest hospital emergency room.

### **3-4. Range communications.**

a. A permanently buried telephone cable is in service downrange and provides Class "C" telephone service to ranges 2, 3, 4, 5, 6, 8, 9, 10, and 13. Class "C" telephones are also located at the Leadership Reaction Course, Rappel Tower, and NBC Chamber. Telephone extensions are listed in each facility or range description. There are no other land line drops available to range or training area users.

b. A commercial VHF Radio System is operated from Range Control. The system is capable of communicating with Range Control-issued portable radio sets. These sets are preset to channel 2 and issued to units conducting live fire exercises or using a range training facility.

c. All live fire training exercises require two means of communication with Range Control. Units using ranges provided with permanent land lines will supplement this means of communication through the use of commercial portable radios issued by Range Control.

d. All units conducting live fire exercises or using a Range Training Facility will conduct a communications check on their primary means of communication every 30 minutes from the time the unit requests a "HOT" time. Changes to this procedure may be directed by Range Control.

e. The selection of retransmission or relay sites must be accomplished so that they are not located in range safety fans or where they are disruptive to effective use of training areas.

f. Safety nets controlled and operated by Range Control will not be used for transmission of unit administrative messages. The senior headquarters of units in training must establish an internal admin net to handle personnel actions and logistical coordination.

g. When it is necessary to leave guard personnel on sensitive items (ammunition, weapons, vehicles, or other equipment), the unit will establish communications with the necessary agencies to deal with security and emergencies that might arise.

h. Field wire lines must be tagged to indicate unit designation and the inclusive dates of use. Road crossing will be made IAW FM 24-20 and the following instructions:

(1) Crossing hard surface or improved (graveled) roads will be accomplished by use of culverts, "laddering," or overheading. Wire lines will not be dug in on these type roads.

(2) Overheading of lines will only be used when an 18 foot clearance can be maintained between the road crown and the suspended wire lines. Overhead wires will be flagged in areas where low flying aircraft are or may be operating.

i. Field wire lines must be recovered by the using unit upon completion of an exercise or field problem.

j. Laying field wire in the vicinity of or across aircraft landing strips or staging areas is prohibited.

### **3-5. Duds, misfires, and malfunctions.**

a. Prior to the operation of any live-fire range, the OIC and RSO (if required) will ensure that all individuals are familiar with safety procedures for discovery of duds; the characteristics

of the weapon or weapons-system to be used; type of ammunition to be employed; proper handling and storage procedures; and weapon and ammunition malfunction and misfire procedures.

b. Units will immediately notify Range Control of the exact location and circumstances of any dud, misfire, or malfunction incident. All such incidents will be handled by the using unit IAW the appropriate procedures in this regulation and the applicable AR, FM, or TM. Range Control will determine if training will continue or cease and will conduct any necessary coordination with other agencies on this installation.

c. Any instance where duds or suspected duds are discovered will be reported to Range Control immediately. This report will include the exact location of the object, description, and circumstances surrounding the discovery, including the rank, name, unit, and telephone number of the individual finding it. Under no circumstances will the item be handled, moved, or disturbed in any way. An area not closer than 10 meters to the object will be marked off, preferably with a strip of high visibility material (such as engineer's tape), to indicate the object's location. The discovering individual will remain on site or readily available to guide Range Control personnel to the object if necessary.

d. Incidents requiring support from other on- or off-post agencies, including the Military Police, Operations Center, Ammunition Supply Point, or Quality Assurance Specialist Ammunition Surveillance, or Safety Officer, will be coordinated by or through Range Control.

e. Ammunition misfires or malfunctions will be handled according to subparagraph 3-3j.

### **3-6. Accident or incident reporting.**

a. Accidents or incidents involving weapons, ammunition, explosives, or pyrotechnics, which result in death or injury to personnel or damage to equipment, will cause a cessation of all firing or training activity. Range Control will be notified immediately with the details of the accident or incident. The first priority is to obtain medical support on or off site for personnel sustaining injury. Weapons, ammunition firing data, and material related to the accident are to be left in place. Ordnance and/or surveillance personnel and DPS will be contacted by Range Control to conduct appropriate investigations.

b. In the event of an accident or incident not causing death or injury to personnel or substantial damage to equipment, Range Control will be notified immediately. The Range Officer or his representative will assess the impact on training, determine if training is to continue, and notify appropriate personnel to conduct necessary investigations.

c. Accidents are to be reported IAW AR 385-40 on DA Form 285-AB-R (US Army Accident Report). Essential elements of information include—

(1) Time, date, and place of accident.

- (2) Name, rank, SSN, and unit of injured.
- (3) Cause of accident.
- (4) Nature of injury or injuries.
- (5) Was the injured person evacuated to the hospital? If so, at what time, and to what facility?
- (6) Person submitting report (name, rank, duty position, unit, and telephone number).

d. Units will not be relieved of responsibility for the particular range, training facility, or training area until Range Control has received a copy of the DA Form 285. The unit is responsible for ensuring that any other agencies requiring the report receive it. Units must have the initial report completed and provided to Range Control prior to 1600 on the day following the incident/accident.

e. If the unit is not capable of meeting the suspense in subparagraph 3-6d above, the unit must provide a valid reason to Range Control (Commander's Inquiry, AR 15-6 Investigation, etc.) as to why the report is being delayed. Based on the reason for the delay, a determination will be made for allowing the unit to clear the range, facility, or area.

### **3-7. Range fires.**

a. Any fire reported in the small arms impact area will cause all live fire ranges to cease fire. Range Control personnel will issue each "HOT" live fire range a "COLD" time when the fire is reported. All live fire ranges will remain in a "COLD" status until Range Control issues a new "HOT" time. No live fire range will be given a "HOT" time until all personnel involved in evaluating or fighting the fire have returned from down range and have been accounted for.

b. If a fire starts in a training area or in the vicinity of a training facility, an immediate halt of all training activities will occur, and the unit will remain in a "COLD" status until Range Control issues a new "HOT" time.

c. The using unit of any live fire range, training area, or training facility will immediately notify Range Control, via the quickest means available, of any fire observed, regardless of the size or cause. This report will include the exact location, the cause, approximate size, and immediate action taken to suppress the fire (per unit fire suppression plan or as directed during initial Range Control briefing).

d. Range Control will notify the Fire Department Chief, who will determine the subsequent action. Once on site, the senior Fire Department official assumes command and control of the



fire site and fire fighting operations. Designated Range Control personnel will occupy locations at the fire scene as requested by the Chief, Fort Huachuca Fire Department, to provide assistance as necessary.

e. The Fire Department will coordinate with Range Control personnel to determine whether to allow the unit to continue to train while monitoring the fire; or cause training to cease to fight the fire. In either event, the unit will remain in a "COLD" status until Range Control gives permission to resume training/go "HOT" again.

f. Except for initial attempts to extinguish a fire, unit personnel will not be employed as firefighters.

g. Coordination between Range Control and the Fire Department will determine the safest method of containing and fighting any fire on or in the hand grenade, recoilless rifle, rocket launcher, or 40mm grenade launcher range impact areas. No one will enter these areas unless directed to do so by Range Control or the Fire Department.

h. If a fire is started in the East Range Impact Area (Training Area Z) the unit may continue training and immediately notify Range Control of the exact location and approximate size of the fire. Range Control will notify the Fire Department who will dispatch a unit to evaluate and monitor the fire. Additional decisions and directions will be provided by the Fire Department and Range Control as deemed necessary.

### **3-8. Airlift or airdrop operations.**

a. The use of facilities and areas for airlift or airdrop operations must be requested IAW this regulation. Airlift and airdrop operations include the use of Hubbard Airstrip for air landings or airdrops and designated parachute and cargo drop zones. The scheduled use of these areas will only be allowed if a Combat Control Team (CCT) and Ground Safety personnel from the unit are at the landing or drop site prior to the scheduled event. Procedures for airlift and airdrop operations are outlined in Headquarters, Department of the Air Force MAC/TAC Regulation 3-3.

b. The CCT is responsible for--

(1) Advance face-to-face coordination with Range Control to ensure safe operation of aircraft with respect to other activities. Routes, altitudes, times, radio frequencies, and specific activities are to be provided to Range Control.

(2) Maintaining communications with Range Control for the purpose of coordinating entry and exit of the area and ensuring safety.

(3) Clearing the airstrip or drop zone of personnel and equipment in coordination with ground safety personnel from the using unit.

c. Ground safety personnel from the using unit will:

- (1) Establish and maintain communications with Range Control.
- (2) Coordinate with the CCT to ensure that equipment and personnel are clear of the drop zone.
- (3) Ensure that the using unit has coordinated for or requested medical personnel, equipment, and vehicles; and that they are on-site at the drop zone prior to the start of any exercise.

## **Appendix A**

### **References**

#### **Section I**

##### **Required Publications**

##### **AR 15-6**

Procedures for Investigating Officers and Boards of Officers

##### **AR 75-1**

Malfunctions Involving Ammunition and Explosives

##### **AR 210-21**

Ranges and Training Areas

##### **AR 350-41**

Training in Units

##### **AR 385-40**

Accident Reporting and Records

##### **AR 385-63**

Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat

##### **AR 405-10**

Acquisition of Real Property and Interest Therein

##### **FH Reg 190-5**

Motor Vehicle Traffic Code

##### **FH Reg 420-12**

Acquisition and Use of Miscellaneous and Off-Post Interest in Real Estate

##### **FH Reg 725-3**

Ammunition and Explosives

##### **FH Supplement 1 to AR 420-74**

Natural Resources, Land, and Wildlife Management

##### **FM 10-69**

Petroleum Supply Point Equipment and Operations

##### **FM 17-12 (HTF)**

Tank Gunnery (How to Fight)

FH Reg 385-8

**FM 22-30**

Grenades and Pyrotechnic Signals

**FM 24-20**

Tactical Wire and Cable Techniques

**TC 25-1**

Training Land

**TM 9-1300-206**

Ammunition and Explosives Standards

**TM 9-1300-203**

Artillery Ammunition for Guns, Howitzers, Mortars, and Recoilless Rifles

**TM 10-4500-200-13**

Operator's, Organizational, and Direct Support Maintenance Manual

**Section II**

**Related Publications**

**AR 5-13**

Training Ammunition Management System

**AR 40-5**

Preventive Medicine

**AR 40-46**

Control of Health Hazards from Lasers and other high Intensity Optical Sources

**AR 350-1**

Army Training

**AR 385-64**

Ammunition and Explosives Safety Standards

**DA PAM 385-63**

Range Safety

**DA PAM 350-38**

Standards In Weapons Training

**FM 1-140**

Helicopter Gunnery

**FM 5-25**

Explosives and Demolitions

**FM 6-30**

Tactics, Techniques, and Procedures for Observed Fire

**FM 7-90**

Tactical Employment of Mortars

**FM 9-15**

Explosives Ordnance Disposal Service and Unit Operations

**FM 9-16**

Explosives Ordnance Reconnaissance

**FM 17-12-1**

Tank Combat Tables, M1

**FM 23-9**

M16A1 Rifle and M16A2 Rifle Marksmanship

**FM 23-11**

90mm Recoilless Rifle, M67

**FM 23-14**

Squad Automatic Weapon (SAW), M249

**FM 23-27**

MK19, 40mm Grenade Machine Gun, MOD 3

**FM 23-31**

40mm Grenade Launchers M203 and M79

**Section III**

**Prescribed Forms**

**FH Form 1155**

Range/Site/Area Request

**Section IV**  
**Referenced Forms**

**DA Form 285**  
U.S. Army Accident Report

**DA Form 2028**  
Recommended Changes to Publications and Blank Forms

**DD Form 577**  
Signature Card

## Appendix B

### Range Catalog, Capabilities/Limitations

INSTALLATION: FT HUACHUCA, ARIZONA

WEAPON SYSTEM: MULTIPLE

Range No.	Primary Use	Target Range Distance (M)		Max Authorized Ammo	Weapons Usage
		Minimum	Maximum		
2	Zero	25	25	5.56mm	M16A1/A2, M4
3	Small Bore	10	100	5.56mm	Various
4	Pistol	7	31	.45 cal	M9/M1911
5	Practice Grenade	35	35	Practice fuze	Grenade Body w/Practice fuze
6	Known Distance	100	1000	7.62mm	Various
8	Modified Record Fire	50	300	5.56mm	M16A1/A2, M4
9	Multi-Purpose Machine Gun	10	800	.50 cal	Various
10	Grenade Launcher	90	350	40mm TP	M203, M79
11	Squad/Platoon Attack Course	10	700	5.56mm	Various
13	Record Fire	25	300	5.56mm	M16A1/A2, M4

### General Training Facility and Range information.

a. The direct firing ranges at Fort Huachuca are primarily located south of the cantonment area, on the South Range. The South Range consists of approximately 21,000 acres, including most of the Huachuca Mountains. It contains 9 training areas comprising approximately 12,000 acres with 10 numbered live fire ranges. The remaining 9,000 acres are established as impact areas for the various ranges.

(1) The South Range consists of the following training areas and facilities--

(a) Training areas O through Q, and T through Y.

(b) Rappelling Tower.

(c) Rappelling Cliffs.

(d) C-140 (C-141) Aircraft Training Mock-up.

(e) Helicopter Landing Area (primarily for emergency use) at grid coordinate WK 633894.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

- (f) Rope Bridge Training Site.
- (g) Land Navigation Course, Training Area U.
- (h) Leadership Reaction Course.
- (i) Site Papa
- (j) Site Uniform
- (2) The designated Live Fire Ranges on the South Range consist of the following--

RANGE    CAPABILITY

- 2\*    M-16 Marksmanship Zero Range
- 3      Multipurpose Small Arms Range
- 4      Competition Pistol/Standard Pistol  
Qualification Complex
- 5      Hand Grenade Range/Grenade Assault Course/  
Combat Casualty Care Course Complex
- 6      Known Distance (KD) Range
- 8      Modified Record Fire Range
- 9      Multipurpose Machine Gun and Crew Served  
Weapon Familiarization Range
- 10     40mm Grenade Launcher Range (TP Round only)
- 11     Small Arms (Squad/Platoon) Assault Range
- 13     Standard M-16 Marksmanship Qualification and  
Zero Range (inactive)

\*Range 2 may be used for qualification on Alternate Course C Targets if Range 8 is non-operational (AR 350-41, Chap 10, paragraph 10-2, & DA PAM 350-38).



## **Appendix B**

### **Range Catalog, Capabilities/Limitations (continued)**

b. The West Range is located to the west of the cantonment area and consists of approximately 18,000 acres. It contains 10 training areas. Live fire is not allowed on the West Range. This area is used primarily for mounted and dismounted maneuver and tactics training. Research and Development Testing is also conducted throughout the West Range. The following training areas and facilities are located on the West Range--

- (1) Training Areas G through N, R, and S.
- (2) Land Navigation Course, Training Area M.
- (3) Helicopter Landing Areas for proficiency and emergency operations. These sites are located at grid coordinates: WV55248724, WV58159250, WV53369548, and WV58159250.
- (4) Demonstration Hill, grid coordinates: WV58229253, may be used to conduct various types of demonstrations.
- (5) Site Maverick is located at grid coordinate: WV55709276.

c. The East Range consists of approximately 28,500 acres and is the largest range area on Fort Huachuca. The East Range is located directly north of Sierra Vista and is physically separated from the remainder of the installation by Arizona State Highway 90. The East Range is primarily used for Research and Development Testing and live artillery and mortar fire. Designated training areas are available for bivouac and maneuver training. The East Range consists of six training areas, an artillery impact area, four drop zones, and a tactical assault landing strip. The following training areas and facilities/sites are located on the East Range:

- (1) Training Areas A through F.
- (2) Artillery Impact Area Z.
- (3) Hubbard Assault Airstrip.
- (4) HUMOR, HUBBARD, HAVOC, HYENA DUST DEVIL and TOMBSTONE Drop Zones

### **Training facility descriptions.**

a. Rappelling Tower.

- (1) Description: Two-level tower platform used for rappelling practice.

## **Appendix B**

### **Range Catalog, Capabilities/Limitations (continued)**

(2) Location: South Range, grid coordinate: WV62868994.

(3) Safety requirements: An OIC/NCOIC and an RSO/RSNCO in the grade of SSG or above will be appointed by the unit commander. These personnel must be present at all times during training. Prior to the start of training, the OIC/NCOIC and/or RSO/RSNCO will inspect all ladders, steps, railings, attachment points, and descent surfaces to determine their serviceability. Unserviceable or questionable points will not be used. Deficiencies will be reported to Range Control prior to the start of training. All equipment will be inspected by the OIC/NCOIC or RSO/RSNCO prior to use. All personnel will be given a safety briefing and rappelling instructions prior to using the tower. An assistant RSNCO will be appointed for each attachment point used. Safety personnel will inspect each person prior to descent.

#### **b. Rappelling Cliffs.**

(1) Description: Cliffs located in Garden Canyon which vary in height from approximately 70 to 100 feet.

(2) Location: South Range, grid coordinate: WV60008040.

(3) Safety requirements: An OIC/NCOIC and an RSO/RSNCO in the grade of E-6 or above will be appointed by the unit commander. These personnel must be present at all times during training. Prior to the start of training, the OIC/NCOIC and/or RSO/RSNCO will inspect all attachment points and decent points to determine their serviceability. Unserviceable or questionable points will not be used; deficiencies will be reported to Range Control. All equipment to be used must be inspected by the OIC/NCOIC or RSO/RSNCO prior to use. All personnel will be given a safety briefing and rappelling instructions prior to use of the cliffs. An assistant RSNCO will be appointed for each attachment point used. Safety personnel will inspect each person prior to descent. Medical support to include medical personnel and means to transport injured personnel is required to be on site at the cliffs prior to the start of training. Coordination for medical support is the unit's responsibility. Soldiers should be trained on the rappel tower prior to training on the rappelling cliffs.

#### **c. Aircraft landing mock-up.**

(1) Description: Concrete platform depicting C-140 (C-141) aircraft cargo bay.

(2) Location: South Range, grid coordinates: WV63228989.

(3) Safety requirement: To be used only to simulate aircraft loading.

#### **d. Rope bridge construction site.**

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(1) Description: Open area with four upright telephone pole tops, approximately 4 feet high.

(2) Location: South Range, grid coordinate: WV63208986.

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. The OIC/NCOIC must be knowledgeable of the procedures for rope-bridge building. The training site will be used for intended purpose only.

e. NBC Mask Confidence Chamber.

(1) Description: Metal building suitable for use of riot control agent CS.

(2) Location: Building 78906.

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Only approved training agents (CS) will be used. Using unit is responsible for supplying required CS. Either the OIC/NCOIC or RSO/RSNCO must have been school trained in the field behavior of riot control agents. Graduation from a 2-week installation NBC Defense Course, or the equivalent, will satisfy this requirement. A unit commander's appointment of OIC/NCOIC or RSO/RSNCO certifies training requirement has been met.

f. Leadership Reaction Course.

(1) Description: Eight stations, each depicting a situation which requires the negotiation of obstacles by an expedient means.

(2) Location: South Range, grid coordinate: WV64888470.

(3) Safety requirements: An OIC/NCOIC and a RSO/RSNCO in the grade of E-6 or above will be appointed by the unit commander. A minimum of one assistant safety is required for each training station used. Personnel will not be allowed to attempt any obviously hazardous or unsafe acts during training. Horseplay is strictly forbidden. All ropes, boards, equipment, and each event station will be inspected by the OIC/NCOIC or RSO/RSNCO prior to the start of training.

g. Obstacle Course.

## **Appendix B**

### **Range Catalog, Capabilities/Limitations (continued)**

(1) Description: Clover shaped with 17 obstacles. This course can be a test of the Soldier's basic motor-skills and physical conditioning. After Soldiers receive instructions and practice their skills, they may negotiate the course against time. Obstacles are negotiated in accordance with FM 21-20.

(2) Location: Apache Flats Training Area.

(3) Safety Requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Soldiers must do warm-up exercises before they begin the course. Instructors must explain and demonstrate to the Soldiers the correct method of negotiating each obstacle prior to the start of training. One safety is required at each obstacle being used.

#### **h. Confidence Course.**

(1) Description: Clover shaped with four groups (Red, White, Blue, and Black) of higher and more difficult obstacles (total of 24 obstacles) than the Obstacle Course. Designed to give Soldiers confidence in their mental and physical abilities and cultivate their spirit of daring. Soldiers are encouraged to negotiate the course, but will not be forced to participate. Obstacles will be negotiated in accordance with FM 21-20.

(2) Location: Apache Flats Training Area.

(3) Safety Requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Soldiers must have attained an adequate level of conditioning before they negotiate the confidence course. Those who have not practiced the basic skills of negotiating the Obstacle Course should not be allowed to use or participate in the Confidence Course. Soldiers should negotiate obstacles in groups no larger than 8 to 12 soldiers. Supervisors should encourage, but not force, soldiers to attempt all obstacles. A minimum of one safety is required at each obstacle. Other safety personnel will be posted as directed by Range Control personnel conducting the course pre-inspection. Neither this course nor any of the individual obstacles will be negotiated for speed or time. Mats will be placed on various obstacles as directed by Range Control

#### **i. Land Navigation Course.**

(1) Description: This course consists of 44 surveyed concrete points with ASA markers. There is heavy vegetation and much of the course is sloped. Legs of the course are short.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(2) Location: South Range, Training Area "U."

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Soldiers must be thoroughly briefed on the course boundaries, environmental considerations, and wildlife dangers. During rainy weather, a stream will have to be negotiated. All personnel using the course must carry water.

j. Land Navigation Course.

(1) Description: This course consists of 58 surveyed concrete points with ASA markers. There is a moderate amount of vegetation and concentrations of cactus on this course, which has long legs over rugged terrain.

(2) Location: West Range, Training Area "M."

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Soldiers must be thoroughly briefed on the course boundaries, environmental considerations, and wildlife dangers. All personnel using the course must carry water.

k. HUMOR Drop Zone.

(1) Dimensions: 825 meters x 1660 meters.

(2) Location: East Range, grid coordinate: WA69850289.

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Subsequent to approval by Range Control of land space use, air space requirements must be requested through the Air Space Management Office, Libby Army Airfield. The CCT must be at the drop site, as well as Ground Safety personnel from the training unit prior to scheduled activity. Medical support (ambulance and personnel) must be on site prior to the training activity. Actions detailed in chapter 3, paragraph 3-8, this regulation, must be accomplished and strictly adhered to.

l. HUBBARD Assault Airstrip and Drop Zone.

(1) Description: A dirt assault strip/landing zone, surveyed and approved by the U.S. Air Force, which can accommodate C-130 aircraft.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

- (2) Dimensions: Drop Zone - 675 meters x 1600 meters.  
Airstrip - 3696 feet x 60 feet.

- (3) Location: East Range, Grid coordinate: WA67650088.

(4) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Subsequent to approval by Range Control of land space use, air space requirements must be requested through the Air Space Management Office, Libby Army Airfield. The CCT must be at the drop site, as well as Ground Safety personnel from the training unit, prior to scheduled activity. Medical support (ambulance and personnel) must be on-site prior to the start of the training activity. Additionally, for airstrip operations, a crash vehicle must be on site prior to use. Actions detailed in chapter 3, paragraph 3-8 of this regulation must be accomplished and strictly adhered to.

m. HAVOC Drop Zone.

- (1) Dimensions: 850 meters x 1700 meters.

- (2) Location: East Range, grid coordinate: WA65859929.

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Subsequent to approval by Range Control of land space use (FH Form 1155), air space requirements must be requested through the Air Space Management Office, Libby Army Airfield. The CCT and Ground Safety personnel must be at the drop site prior to start of scheduled activity. Medical support (ambulance and personnel) must be on-site prior to the training activity. Actions detailed in chapter 3, paragraph 3-8 of this regulation must be accomplished and strictly adhered to.

n. HYENA Drop Zone.

- (1) Dimensions: 300 meters x 300 meters.

- (2) Location: East Range, grid coordinate: WV74409906.

(3) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Subsequent to approval by Range Control of land space use (FH Form 1155), air space requirements must be requested through the Air Space Management Office, Libby Army Airfield. The CCT must be at the drop site, as well as Ground Safety personnel from the training unit prior to the scheduled activity. Medical support (ambulance and personnel) must be on-site prior to the training activity. Actions detailed in chapter 3, paragraph 3-8 of this regulation, must be accomplished and strictly adhered to.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

**Range descriptions.**

a. Range 2.

(1) Description: This is an M-16 Rifle Zero Range primarily used for 25m zeroing. In special situations, this range may be used for M-16 qualification when Range 8, Standard M-16 Qualification Range is non-operational.

(2) Location: South Range, grid coordinate: WV62109021.

(3) Weapons: M-16 Rifle.

(4) Ammunition: 5.56mm Ball.

(5) Number of Firing Points: 40.

(6) Targets: 25m zero and Alternate Course C targets.

(7) Range Flag Requirement: One, west side of Range 2.

(8) Safety Limits: Must fire at target corresponding to firing point.

(9) Telephone: Class "C", 533-7279, located in Range Tower.

(10) Road Guards: Road barrier placed on old Range 1 road, with warning signs on the access road.

(11) Power Outlets: 110 volt outlet available.

(12) Buildings: 14450 and 14451.

(13) Latrine: Portable.

(14) Field Mess Area: Open area in the vicinity of the Range.

(15) Vehicles: Only ammunition and aid vehicles will be allowed on the Range; all other vehicles will be in the parking lot on the east side of the Range and across the road.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(16) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Sufficient assistant safety NCOs must be appointed to maintain positive control of firers. Hearing protection is required for all personnel forward of the Control Tower during live fire.

b. Range 3.

(1) Description: This is a small bore multi-purpose range with target ranges from 10-100m. This range can be configured for Standard Law Enforcement pistol or shotgun qualification and .45 caliber sub-machine gun familiarization. When required, this range can be used in lieu of Range 2 for M-16 Rifle Zero.

(2) Location: South Range, grid coordinate: WV62669004.

(3) Weapons: Small bore, rifles, pistols, and shotguns.

(4) Ammunition: .22, .38, and .45 cal; 9mm; 5.56mm ball; 7.62 ball.

(5) Number of firing points: 15.

(6) Targets: Standard.

(7) Range flag requirement: One flag on the east side of the range building.

(8) Safety limits: Must fire at targets corresponding to firing points.

(9) Telephone: Class "C", 533-7280, located on the covered firing line.

(10) Range guards: Warning signs placed in access road.

(11) Power outlets: 110 volts located on the covered firing line.

(12) Buildings: 14471.

(13) Latrine: Portable.

(14) Mess area: None.

(15) Vehicles: Only ammunition and aid vehicles will be in the vicinity of the range, all other vehicles will be across the road, in the Range 3 parking lot.



**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(16) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Sufficient assistant safety NCOs must be appointed to maintain positive control of firers. Hearing protection is required for all personnel who are forward of the restraining cable.

c. Range 4.

(1) Description: Range 4 is a competition pistol range with target distances of 25 and 50 meters and a Combat Pistol Course with target distances from 7-31 meters. Ranges can be configured for shotgun and sub-machine gun use.

(2) Location: South Range, grid coordinate: WV63058945.

(3) Weapons: Pistols, shotgun, and sub-machine gun.

(4) Ammunition: .22, .38, and .45 cal; 9mm; 12 gauge.

(5) Number of firing points: – 4

(6) Targets: Toggle switch operated M-31A1 target lifters

(7) Range flag requirement: One flag at the south end of the range building.

(8) Safety limits: Must fire at targets corresponding to the firing point or lane.

(9) Telephone: Class "C", 533-7294, one located on the north side of building 15406; one located in the Control Tower.

(10) Road guards: Warning signs placed in Garden Canyon Road.

(11) Power outlets: None.

(12) Buildings: 15406, and 15407.

(13) Latrine: Portable.

(14) Field mess area: On the Range.

(15) Vehicles: Only ammunition and aid vehicles will be allowed on the Range; all other vehicles will be in the parking lot on the east side of the Range and across the road.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(16) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Sufficient assistant safety NCOs must be appointed to maintain positive control of the firers. Hearing protection is required for all personnel on the range. Range 4A will not be used if Range 2 is in operation.

d. Range 5.

(1) Description: Range 5 is a hand grenade course for use with dummy hand grenades only and consists of 5 hard targets. The course is approximately 150 meters long with obstacles that must be negotiated to reach the final target.

(2) Location: South Range, grid coordinate: WV63218891.

(3) Ammunition: Dummy grenade body with training fuse.

(4) Targets:

(a) 25 meter wheeled vehicle engagement.

(b) 35 meter enemy personnel.

(c) 20 meter enemy mortar position.

(d) 25 meter trench.

(e) Enemy bunker.

(5) Power outlets: None.

(6) Latrine: Portable.

(7) Vehicles: Only ammunition and aid vehicles will be allowed on the Range, POV's must park in the designated (gravel) area.

(8) Safety requirements: An OIC/NCOIC in the grade of E-6 or above will be appointed by the unit commander. Sufficient assistant safety NCOs must be appointed to maintain positive control.

e. Range 6.

(1) Description: Known distance (KD) range consisting of targets at distances from 100 - 600 - 1000 yards.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

- (2) Location: South Range, grid coordinate: WV63228783.
- (3) Weapons: Center Fire Rifle.
- (4) Ammunition: Various high-powered rifle.
- (5) Number of firing points: 50
- (6) Targets: Standard A (known distance) through D and National Rifle Association (NRA) approved types.
- (7) Range flag requirements: Two range flags are required; one located northeast of the range; and one located northwest of the range.
- (8) Safety limits: Personnel must fire at targets corresponding to firing points.
- (9) Range 6 is also used as a zero range with 30 firing points.
- (10) Telephone: Class "C", 533-7087, located in Building 15343.
- (11) Road guards: As directed by Range Control.
- (12) Power outlets: None.
- (13) Buildings: 15343.
- (14) Latrine: Portable
- (15) Field mess area: On Range.
- (16) Vehicles: Vehicles will be parked in an orderly manner behind the firing line being used. No vehicles are permitted in the pit area. All roads must remain clear for emergency vehicle access.
- (17) Safety requirements: An OIC and an NCOIC in the grade of E-6 or above will be appointed by the unit commander. The OIC will control the firing line and the NCOIC will control the pit area. Sufficient assistant safety NCOs must be appointed to maintain positive control of firers and pit personnel. Hearing protection is required for all range personnel.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

f. Range 8.

(1) Description: Computer operated and scored modified record fire range with pop-up target distances from 50 - 300 meters. The capability also exists to fire the standard train fire course.

(2) Location: South Range, grid coordinate: WV63288758.

(3) Weapons: M-16

(4) Ammunition: 5.56mm Ball/Tracer.

(5) Number of Firing Points: 10, with foxholes.

(6) Targets: Pop-up targets located at distances from 50 to 300 meters.

(7) Range Flag Requirement: one, located at entrance to range on Garden Canyon Road.

(8) Safety Limits: Firers must engage targets corresponding to their firing point number. Only targets within the range limit marker panels will be engaged.

(9) Telephone: Class "C", 533-7096, located in Control Tower.

(10) Road Guards: None required.

(11) Power Outlets: 110 volt outlets located in support buildings.

(12) Buildings: 15361, 15362, 15363, 15364, 15365, 15366, and 15367.

(13) Latrine: Building 15364.

(14) Field Mess Area: Building 15367.

(15) Vehicles: Only ammo and aid vehicles allowed on range. There are no facilities for POV parking.

(16) Safety Requirements: OIC/NCOIC required. One assistant safety NCO will be appointed for every four firing points to maintain positive control of firers. Hearing protection required by all personnel forward of the Control Tower.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

g. Range 9.

(1) Description: This is a multi-purpose range complex with 10 firing positions capable of supporting .50 cal MG, Squad Attack Weapon (SAW), M-60 MG, 106mm Recoilless Rifle, LAW and AT-4 (sub-cal only), RPG, MARK 19 (TP ONLY), DRAGON and mounted and dismounted TOW (inert round only), and the M18A1 Claymore Mine.

(2) Location: South Range, grid coordinate: WV63328723.

(3) Weapons: .50 cal MG, M-60 MG, SAW, MARK 19, 106mm Recoilless Rifle, LAW, DRAGON, TOW, and Claymore Mine.

(4) Ammunition: .50 cal Ball, 7.62mm Ball and Tracer, 40mm TP, 90mm sub-cal device, and 66mm - practice HE, DRAGON and TOW practice round, and Claymore mine.

(5) Number of firing points: Ten (10)

(6) Targets: Stationary and as requested.

(7) Range flag requirements: Two range flags are required, one located northeast of the range; one located northwest of the range.

(8) Safety limits: Personnel must fire at targets within the impact area marked by range limit panels.

(9) Telephone: Class "C", 533-7303, located in Building 15353.

(10) Road guards: None.

(11) Power outlets: None.

(12) Buildings: 15353.

(13) Latrine: Portable.

(14) Field mess area: Open area in the vicinity of the range.

(15) Vehicles: Only ammunition and aid vehicles will be allowed on the range. All other vehicles will park northeast of the range.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(16) Safety requirements: OIC/NCOIC and RSO/RSNCO in the grade of E-7 and above will be appointed by the unit commander and are required on all three ranges. Sufficient assistant safety NCOs must be appointed to maintain positive control of firers. All duds and misfires will be reported to Range Control immediately. When Dragon or TOW is used, personnel will be briefed on the back blast area which will be marked and blocked off. No vehicles or personnel will enter this area. Hearing protection is required for all personnel on the ranges.

h. Range 10.

(1) Description: Grenade launcher range capable of supporting the M-79 and M-203 Grenade Launchers. High explosive ammunition will not be expended on this range.

(2) Location: South Range, grid coordinate: WV63478707.

(3) Weapons: M-79 and M-203.

(4) Ammunition: 40mm practice.

(5) Number of firing points: 4

(6) Targets: Stationary.

(7) Range flag requirements: One flag at the southeast corner of the safety limit panels.

(8) Safety limits: Personnel must fire at targets within the safety limit panel.

(9) Telephone: Class "C", 533-7097, located at the range entrance.

(10) Road guards: One on the road at the range flag pole.

(11) Power outlets: None.

(12) Buildings: None.

(13) Latrine: None.

(14) Field mess area: Open area on the range.

(15) Vehicles: Only ammunition and aid vehicles will be allowed on the range. All other vehicles must park in the road guard area.

## **Appendix B**

### **Range Catalog, Capabilities/Limitations (continued)**

(16) Safety requirements: OIC/NCOIC and RSO/RSNCO in the grade of E-6 and above will be appointed by the unit commander. One assistant RSNCO is required for each firing point/lane. All roads must remain unblocked for emergency vehicle access. Hearing protection is required for all personnel on the range forward of the Control Tower.

#### **i. Range 11. (In-active)**

(1) Description: Small Arms Squad/Platoon Attack Course. The course is situated so that the using unit may develop a scenario that best suits their training requirements and mission. The engagement area is approximately 400 meters wide and 700 meters deep. Target distances can be varied from 10 meters to 700 meters. Scenarios will be prepared indicating phases, day/night use, target positions, firing positions/lanes, direction of movement, and method of attack. Scenarios will be submitted to the Range Control Officer for review, approval, and/or modification a minimum of 15 duty days prior to the scheduled date of training. Pyrotechnics may be used to provide smoke and simulate artillery fire only if included in the scenario and previously approved by the Range Control Officer.

(2) Location: South Range, grid coordinate: WV63958560.

(3) Weapons: M-16, M-60, SAW, .45 Cal, and 9mm, M-79 and M-203.

(4) Ammunition: 5.56mm Ball, 7.62mm Ball, 9mm, and .45 Cal., and 40mm TP.

(5) Number of firing points: Scenario dependent.

(6) Targets: As requested. Using unit may be required to provide fund cite for target materials.

(7) Range flag requirement: One at the range road entrance to Garden Canyon Road.

(8) Safety limits: All targets engaged must be within Range Safety Limit Markers.

(9) Telephone: None.

(10) Road guards: As directed by Range Control.

(11) Power outlets: None.

(12) Buildings: None.

(13) Latrine: None.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(14) Field mess area: Open area on the range.

(15) Vehicles: Only ammunition and aid vehicles will be allowed on the range. All other vehicles must park in the vicinity of the range entrance, per guidance from Range Control personnel.

(16) Safety requirements: OIC/NCOIC and RSO/RSNCO in the grade of E-6 and above will be appointed by the unit commander. One RSNCO will be appointed for each movement firing lane. Positive control of firers is required at all times. Using unit required to provide secondary means of communications with Range Control. Primary and secondary communications must be established prior to initiation of any live fire activity. Prior approval of scenario, night firing, target positioning, firing points/lanes, and use of pyrotechnics is required. No deviation from approved operation is allowed. Hearing protection is required for all personnel on the range.

j. Range 13.

(1) Description: M-16 Marksmanship record fire range with pop-up target distances from 50 - 300 meters. The capability also exists to Zero on this range at 25 meter stationary targets.

(2) Location: South Range, grid coordinate: WV64638517.

(3) Weapons: M-16.

(4) Ammunition: 5.56mm Ball/Tracer.

(5) Number of firing points: 16, with foxholes.

(6) Targets: Pop-up targets located at distances from 50 to 300 meters.

(7) Range flag requirements: Two, one located at the northeast corner of the range and one at southeast corner of the range.

(8) Safety limits: Firers must engage targets corresponding to their firing point number. Only targets within the range limit marker panels will be engaged.

(9) Telephone: Class "C," 533-7296, located in Control Tower.

(10) Road guards: None required. Warning signs must be placed in Garden Canyon Road.



**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

- (11) Power outlets: None
- (12) Buildings: 15371, 15372, and 15373.
- (13) Latrine: Portable
- (14) Field mess area: Open area on the range.
- (15) Vehicles: Only ammunition and aid vehicles allowed on the range. All other vehicles will park in the designated area across Garden Canyon Road.
- (16) Safety requirements: OIC/NCOIC and RSO/RSNCO in the grade of E-6 and above will be appointed by the unit commander. One assistant safety NCO will be appointed for every four firing points to maintain positive control of firers. Hearing protection is required by all personnel forward of the Control Tower.

**East Range artillery and mortar firing points. (In-active)**

a. Listed below are the surveyed firing points usable for firing into Impact Area Z. Observer stations, grids, orienting line grid, and other necessary and appropriate data are available at Range Control.

FIRING POINT NUMBER	AZIMUTH OF FIRE	GRID AT BTRY CENTER	ALTITUDE
101	1700	WA66770079	1297
102	1600	WA65570056	1305
103	1500	WV65209881	1334
201	1100	WV64789762	1349
202	1100	WV66119716	1337
203	1000	WV66279666	1343
301	0800	WV67529584	1359
302	0500	WV68649552	1356
303	0300	WV70309574	1337
401	6400	WV72169678	1314
402	5800	WV74329626	1298
501	5300	WV76689817	1238
502	4800	WV75689996	1244
601	1600	WA68050112	1305
602	1600	WA67470032	1309
603	1200	WV67459892	1325
701	1000	WZ67099787	1337

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

702	0800	WV67909620	1354
703	0900	WV67929730	1343

b. The following is the East Range Firing Point Data--

(1) The primary observation post for this range is Hill Four, grid coordinate: WA72510349.

(2) The following weapons systems can be fired: 60mm, 81mm and 120mm Mortar, 4.2 inch Mortar, 105mm and 155mm Howitzers, and 2.75" rockets.

(3) High explosive, illumination, smoke, and WP can be fired into Impact Area Z.

(4) One range flag is required at each gate during East Range live fire.

(5) Portable latrines can be requested through DIS.

(6) Tactical vehicles are allowed on the range behind the established firing points.

c. Range Safety Officers for artillery and mortar ranges will be tested and certified by their unit commander. A list of certified officers will be submitted to Range Control and must arrive a minimum of 14 days prior to the date training is to begin. Commander's certification of RSOs will be issued in writing, and will be valid for a maximum of 12 months.

d. Artillery and/or mortar firing will be from the designated, surveyed firing points only. Requests for additional firing points must have surveys to the 5th Order (1/1000) accuracy and environmental documentation completed prior to submission to Range Control for approval.

e. Ceiling will extend 1000 feet above the maximum ordinate and to all areas of the impact area before firing is allowed. High angle firing may be accomplished only if prior approval from Range Control has been received.

f. A safety diagram, computed by the RSO, will be submitted in two copies to the Range Control Officer for approval. Once approved, Range Control will retain one copy and the second copy will be returned to the unit. The approved range safety diagram must be placed on the firing chart in the Fire Direction Center once the unit is deployed.

g. Pertinent safety data will be displayed at each gun or mortar position.

h. Left and right safety stakes or tapes, colored or painted international orange, will be used at each howitzer position. The RSO will inspect each gun position initially to ensure this is accomplished.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

i. The following procedures for burning unused powder increments have been established and will be followed without deviation—

(1) Under no circumstances will more than two individuals be used to place the powder increments for burning; one of these will be a commissioned officer.

(2) The firing point site will be used for burning excess propellant. A location in the middle of an area clear of all vegetation will be selected. The powder increments from all types of charges will be placed in a double row, one against the other, in this location. A single ignition line of powder will be laid from the up-wind end of the stacked increments.

(3) No personnel except one fire extinguisher bearer and the individual igniting the ignition line of powder will be within 20 meters of the burn row. All other personnel will be well away from the burn and on the up-wind side.

(4) Permission to ignite the powder will be requested from Range Control. Range Control will notify the Fire Department that a controlled powder burn is taking place. Range Control will give permission to ignite the powder once they have been provided the burning unit's designation and the name and rank of the site OIC.

(5) The powder burn will be monitored to ensure that it burns out completely and no secondary fires start. Once the burn is complete, the remnants will be stirred, covered with dirt, and mixed as necessary. Range Control will be notified that the burn has been completed and the fire is completely extinguished. Range Control will notify the Fire Department that the burn has been completed.

j. Any projectile that bursts or lands outside the established safety limits as prescribed by the valid range safety card/diagram requires immediate action and investigation. The following procedures will be followed to determine and correct the cause--

(1) Personnel detecting rounds bursting or landing outside the limits of their authorized impact area will cause the responsible unit/firing point to suspend firing, if the unit/firing point can be immediately identified.

(2) In any event, immediately report the incident to Range Control. The report will include the date and time observed; name, unit, and location of observer; any identified personnel injured or equipment/property damaged; and the impact location and number of rounds or estimated height, if an air burst. If it was a ground impact, make sure the crater is not disturbed prior to the arrival of investigating officials.

**Appendix B**  
**Range Catalog, Capabilities/Limitations (continued)**

(3) The Range OIC will immediately order a check-fire on the range and accomplish the following--

- (a) Analyze available facts and data to determine suspect unit/firing position.
- (b) Request an investigation if human error or weapon malfunction is suspected.
- (c) Allow those units/positions determined to be safe to continue firing.

(4) The RSO of the suspect or known unit firing the erratic round will accomplish the following--

- (a) Suspend unit firing.
- (b) Immediately cause cannoneers to fall in at the rear of their pieces and ensure that all pieces remain as laid. No ammunition will be disturbed until clearance has been given by the Range OIC or the investigating officer.
- (c) Determine the facts surrounding the incident and report them to both Range Control and the investigating officer.

(5) Upon completion of the investigation, the investigating officer will notify Range Control of the results. The investigating officer will also notify the OIC(s) and RSO(s) of the unit(s) found not to be responsible. The Range OIC may then lift the imposed check-fire for those units.

## Appendix C

### Officer In Charge/Range Safety Officer Appointments

<b>OIC/RSO appointment requirements</b> (from DA PAM 385-63 table 1-1)						
<b>Weapon system</b>	<b><u>OIC (1)</u></b>			<b><u>RSO (1)</u></b>		
	OFF	WO	NCO	OFF	WO	NCO
Practice hand grenades; subcaliber training devices; laser devices; firing devices; simulators & trip flares; small arms and machineguns	X	X	E6	X	X	E5
Chemical agents and smokes (2,6)	X	X	E6	X	X	E5
Aerial gunnery & air defense weapons; flamethrowers; live grenade, grenade launchers, and grenade machineguns; live mines & demolitions; tank & fighting vehicle cannons; recoilless rifles	X	X	E7	X	X	E6
Field Artillery (3)	X	X	E7	X	X	E6
Mortars	X	X	E6	X	X	E6(7)
ADA rockets and guided missiles		X			X(4)	
Direct fire antitank rockets and missiles	X	X	E7	X	X	E6
Live-fire exercises using organic weapons, squad through company, battery, troop	X	X	E7	X	X	E6
Combined arms live-fire exercises using outside fire support, troop, battery, squad, platoon, company; or battalion and larger (5)	X	X	E7	X	X	E6
<b>Notes:</b> <b>1.</b> Civilians in the grade of GS-07 or above may act as OIC, and GS-05 or above or equivalent as RSO. Civilian contractors may act as OIC/RSO when approved by the installation commander and IAW contract SOW. <b>2.</b> OIC and RSO must be nuclear, biological, and chemical (NBC) qualified when conducting NBC or smoke training. <b>3.</b> Use of E7s as OICs is authorized only when approved by the installation commander. Duties of the RSO are normally performed by either the battery executive officer or platoon leader. <b>4.</b> SRSO will be a field grade officer, CW4 or CW5 (Army), or civilian in the grade of GS-12 or above. <b>5.</b> OIC will be field grade officer for battalion or larger CALFEX. <b>6.</b> RSO for Marine Corps will be E6 or above for practice hand grenades, chemical agents and smoke. The installation commander may allow E5 to act as RSO for practice hand grenades, chemical agents and smoke. <b>7.</b> RSO for Marine Corps can be E5 for mortar training activities.						

**Example of BN Memorandum of Qualified OIC & RSOs**

**DEPARTMENT OF THE ARMY**  
(UNIT ADDRESS)

(Office Symbol)

(Date of Memo)

MEMORANDUM FOR Range Operations, Fort Huachuca, AZ 85613

SUBJECT: Qualification to perform duties as OIC/RSO of live fire ranges

1. The following personnel are qualified to conduct live fire ranges on Fort Huachuca:  
Laser

<u>RANK/NAME</u>	<u>TYPE</u>	<u>LAST 4</u>	<u>DEROS</u>	<u>Certified</u>
LT James, Robert J.	OIC/RSO	4863	050508	Y
SFC Rodney, John B.	OIC/RSO	8336	122607	N
SGT Hogwartz, Brenda L.	RSO	2298	091306	N
2LT Wilson, David C.	OIC/RSO	9610	030109	Y

2. This memorandum supersedes memorandum dated (date of last memo).
3. POC this memorandum is the undersigned at (phone number)

(BATTALION COMMANDER)

## Training Areas Capabilities List

**East Range**, is high desert terrain that is broken into 7 training areas as follows:

Training Area	Acres	Traffic Permitted on Existing Roads and Trails	Traffic Permitted off Existing Roads and Trails	Primary Use
A	2471	Foot/wheel	Foot	Contains several surveyed firing points usable for mortar and artillery.
B	2471	Foot/wheel	Foot	Humor and Dust Devil drop zones; supports air operations to include personnel and bundle drops.
C	2100	Foot/wheel	Foot/wheel	Hubbard and Havoc drop zones; supports air operations to include personnel and bundle drops.
D	4694	Foot/wheel	Foot/wheel	Hubbard and Havoc drop zones; co-located with Hubbard Assault Airstrip.
E	4942	Foot/wheel	Foot	Hyena drop zone.
F	3583	Foot/wheel	Foot	Supports military training for all testing activities
Z	6954	Foot/wheel	None	Impact zone; restricted access, roads only.

**West Range**, varies from high desert to mountain terrain that is broken into 8 training areas as follows:

Training Area	Acres	Traffic Permitted on Existing Roads and Trails	Traffic Permitted off Existing Roads and Trails	Primary Use
G	1087	Foot/wheel	Foot	Supports communications testing activities, FTX and bivouac activities.
H	4200	Foot/wheel	Foot	Supports tactical training and communications testing activities.
I	2223	Foot/wheel	Foot	Utilized for FTX, bivouac, and other related field training.
J	1111	Foot/wheel	Foot	UAV operations / training.
K	1136	Foot/wheel	Foot	Utilized for FTX, bivouac, and other related field training.
L	840	Foot/wheel	Foot	Utilized for FTX, bivouac, and other related field training.
M	1087	Foot/wheel	Foot	FTX and Land nav/compass course.
N	3410	Foot/wheel	Foot	Utilized for FTX, bivouac, and other related field training.

E-1

**South Range**, varies from high desert to mountain terrain that is broken into 11 training areas as follows:

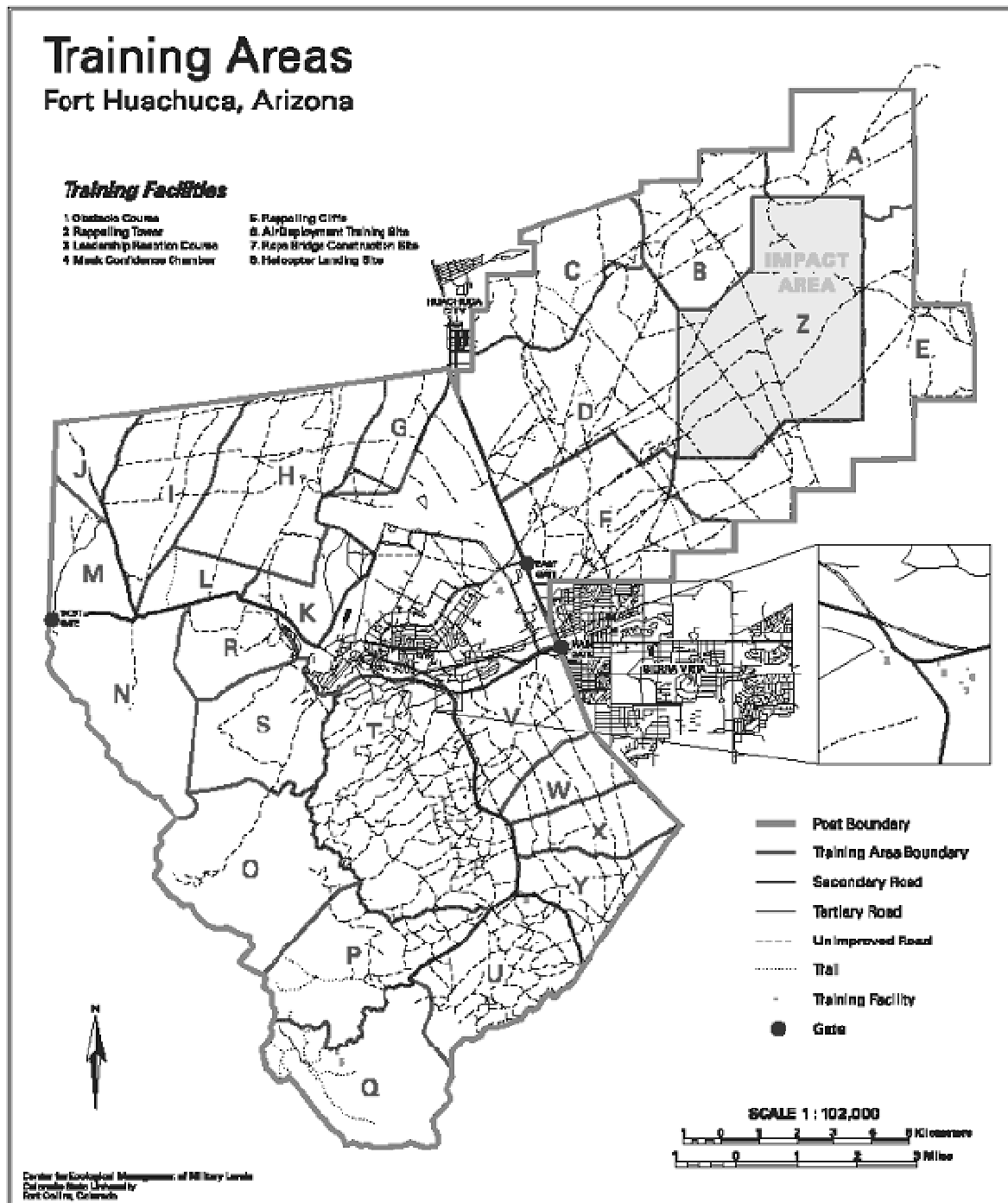
Training Area	Acres	Traffic Permitted on Existing Roads and Trails	Traffic Permitted off Existing Roads and Trails	Primary Use
O	2619	Foot/wheel	Foot	Patrolling and tactics training; FTX, mountaineering.
P	3459	Foot/wheel	Foot	Intel, communications, FTX, mountaineering and limited recreation.
Q	2347	Foot/wheel	Foot	Military use of rappel cliffs, mountaineering.
R	1359	Foot/wheel	Foot	Patrolling and tactics training; FTX.
S	2322	Foot/wheel	Foot	Patrolling and tactics training; FTX.
T	5312	Foot/wheel	Foot	All live fire ranges (small arms).
U	2347	Foot/wheel	Foot	Patrolling and tactics training, FTX and Land nav/compass course.
V	1729	Foot/wheel	Foot	FTX and tactical training.
W	1482	Foot/wheel	Foot	Brigade-level exercises, FTX, patrolling and tactics.
X	1235	Foot/wheel	Foot	Intel, communications, FTX, patrolling and tactics
Y	1482	Foot/wheel	Foot	Brigade-level exercises, FTX, patrolling and tactics.



**Appendix F**  
**Directorate Phone Numbers**

Chief, Training Division	533-7102
Military Police Desk	911 or 533-3000
Fire Department	911 or 533-2111
Safety Officer	538-2163
Safety Hotline	538-7233
Environmental Division Chief	533-5215
Libby Army Airfield Weather	538-2865

## Appendix G Training Areas



## **Glossary**

### **AMMO**

Ammunition

### **ASA**

Numbered point designator

### **ASP**

Ammunition Support Point

### **CBLFX**

Combat Live-Fire Exercise

### **CCT**

Combat Control Team

### **CP**

Command Post

### **CS**

Riot Control Chemical Agent

### **CTT**

Common Task Testing

### **DEH**

Directorate of Engineer and Housing

### **DES**

Directorate of Emergency Services

### **DPW**

Directorate of Public Works

### **EOD**

Explosive Ordnance Disposal

### **FH**

Fort Huachuca

### **FM**

Field Manual

FH Reg 385-8

**FTX**

Field Training Exercise

**IAW**

in accordance with

**KD**

known distance

**LAW**

Light Antitank Weapon

**LED**

Law Enforcement Division

**MEDDAC**

Medical Department Activity

**mg**

machinegun

**MPH**

Miles per Hour

**NBC**

Nuclear, Biological, Chemical

**NCO**

Noncommissioned Officer

**NCOIC**

Noncommissioned Officer In Charge

**OHV**

Off-Highway Vehicle

**OIC**

Officer In Charge

**POV**

Privately Owned Vehicle

**POW**

Privately Owned Weapon

**RPG**

Rocket Propelled Grenade

**RSNCO**

Range Safety Noncommissioned Officer

**RSO**

Range Safety Officer

**SAW**

Squad Automatic Weapon

**SOP**

Standard Operating Procedures

**TOW**

Tube-Launched, Optical-Tracked, Wire-Guided

**TM**

Technical Manual

**TP**

Training Practice

**TPDS**

Training Practice Discarding SABOT

FH Reg 385-8

(IMSW-HUA-IMPB)



A handwritten signature in dark ink, appearing to read "Barbara G. Fast".

OFFICIAL:  
BARBARA G. FAST  
Major General, USA  
Commanding

DISTRIBUTION:  
E